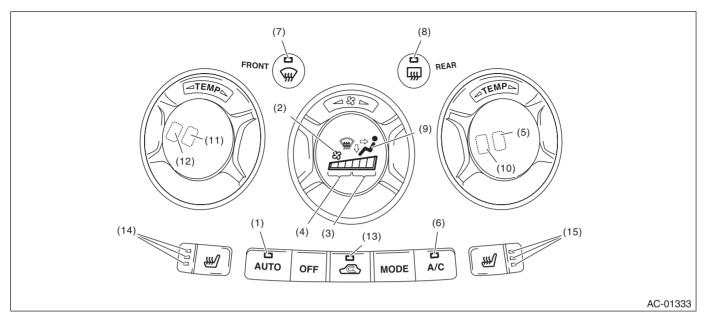
1. A/C CONTROL PANEL SELF-DIAGNOSIS

	Step	Check	Yes	No
1	SET SELF-DIAGNOSIS MODE BY OPERAT-ING A/C CONTROL PANEL. 1) Turn the ignition switch to ON with the AUTO switch and MODE switch pressed. 2) The status of communication with the A/C ECM is displayed in the left TEMP display field.	Does the self-diagnosis function operate?	Go to step 2.	<ref. ac(diag)-<br="" to="">15, A/C OR SELF- DIAGNOSIS SYS- TEMS DO NOT OPERATE, Diag- nostics for A/C System Malfunc- tion.></ref.>
2	CHECK DISPLAY AND INDICATOR. Check if all the screen display and indicators come on and then go off. NOTE: "11" — "14" is displayed on the screen when malfunction occurs.	Do all the screen display and indicators come on then go off?	Go to step 3.	Replace the A/C control panel.
3	CHECK SWITCH AND TEMPERATURE CONTROL DIAL INPUT. According to the switch check table, press each switch or turn the temperature control dial, and check the relative screen display and indicators illuminate. <ref. ac(diag)-12,="" chart="" check="" diagnostic="" for="" operation,="" self-diagnosis.="" switch="" table,="" to=""></ref.>	Does the screen display related to each switch and dial input illuminate?	Go to step 4.	Replace the A/C control panel.
4	CHECK A/C CONTROL PANEL COMMUNICATION. 1) Turn the ignition switch to OFF. 2) Disconnect the auto A/C control module harness connector. 3) Using a suitable lead wire, short the terminal No. 18 and No. 19 of auto A/C control module harness connector (B283). 4) Turn the ignition switch from OFF to ACC, and wait for 2 seconds. 5) Turn the ignition switch to ON while pressing the AUTO switch and A/C switch. 6) Press any switch on A/C control panel. 7) When no malfunction occurs in the control panel communication, "CL" (no open line) is displayed in the left side TEMP display field on the screen; and when a malfunction occurs, "OP" (open line exists) is displayed.	Is "CL" displayed on the screen?	A/C control panel is normal. Turn the ignition switch to OFF, and connect the auto A/C control module harness connector.	Replace the A/C control panel.

2. SWITCH CHECK TABLE



Switch	Display screen	Switch	Display screen	
A/C switch	(6)	FAN switch (+)	(4)	
AUTO switch	(1)	FAN switch (-)	(3)	
Air flow control switch	(9)	Driver's side temperature control dial	Right rotation (11) Left rotation (12)	
FRESH/RECIRC	(13)	Passenger's side temperature control dial	Right rotation (5) Left rotation (10)	
Defroster switch	(7)	OFF switch	(2)	
Rear defogger switch	(8)	Driver's seat heater switch	(14)	
Passenger's seat heater switch	(15)			

3. A/C CONTROL SYSTEM SELF-DIAGNOSIS

	Step	Check	Yes	No
1	SET SELF-DIAGNOSIS MODE BY OPERAT-ING A/C CONTROL PANEL. 1) Start the engine with the AUTO switch and FRESH/RECIRC switch pressed. NOTE: Self-diagnosis can also be performed with ignition switch ON, but start the engine because observing the magnet clutch operation is difficult. 2) All the indicators blink four times.	Does the self-diagnosis function operate?	Go to step 2.	<ref. ac(diag)-<br="" to="">15, A/C OR SELF- DIAGNOSIS SYS- TEMS DO NOT OPERATE, Diag- nostics for A/C System Malfunc- tion.></ref.>
2	CHECK EACH SENSOR AND POTENTIOMETER. 1) After the indicators stop blinking, automatically change to the Inspection Mode of sensor and potentiometer. NOTE: Display items can be changed each time the A/C switch is pressed. (Step Operation) 2) When malfunction occurs in each sensor and potentiometer, codes are displayed on the screen. When no malfunction occurs in each sensor and potentiometer, code "20" is displayed on the screen. 3) Identify the defective sensor according to the sensor check table. <ref. ac(diag)-14,="" chart="" check="" diagnostic="" for="" operation,="" self-diagnosis.="" sensor="" table,="" to=""></ref.>	displayed?	Repair the defective sensor. <ref. ac(diag)-30,="" diagnostic="" for="" procedure="" sensors.="" to=""></ref.>	Go to step 3.
3	CHECK EACH ACTUATOR, BLOWER FAN AND MAGNET CLUTCH. 1) After completing each sensor and potentiometer inspection, change to the Inspection Mode of actuator, blower fan and magnet clutch by pressing the defroster switch. 2) Each mode will change and operate automatically every four seconds. NOTE: Operation mode items can be changed each time the A/C switch is pressed. (Step Operation) 3) Check the operation of actuator, blower fan and magnet clutch in each mode according to the operating mode table. <ref. ac(diag)-14,="" chart="" diagnostic="" for="" mode="" operating="" operation,="" self-diagnosis.="" table,="" to=""></ref.>		A/C control system is normal. Press the OFF switch and complete the self-diagnosis function.	Repair the defective part in accordance with each diagnostic chart. <ref. a="" ac(diag)-15,="" c="" diagnostics="" for="" malfunction.="" system="" to="">or <ref. ac(diag)-23,="" actuators.="" diagnostic="" for="" procedure="" to=""></ref.></ref.>

4. SENSOR CHECK TABLE

NOTE:

When the sunload sensor check is performed indoors or in the shade, it could be diagnosed as having an open circuit. Always check the sunload sensor with the sun shining on it.

Display screen (Malfunction at present) *1	Sensor	Trouble contents	
21/AUTO Blink	le velejele eeneer	Open	
–21/AUTO Blink	In-vehicle sensor	Short	
22/AUTO Blink	Ambient sensor	Sensor trouble or communication failure	
23/AUTO Blink	Fire a weeken a consequence	Open	
–23/AUTO Blink	Evaporator sensor	Short	
24/AUTO Blink	Engine coolant temperature sensor	Sensor trouble or communication failure	
25 Blink	Cunland concer	Open *2	
–25/AUTO Blink	Sunload sensor	Short	
26/AUTO Blink	Driver's side air mix door actuator	COOL	
27/AUTO Blink	potentiometer	НОТ	
–26/AUTO Blink	Passenger's side air mix door actuator	COOL	
-27/AUTO Blink	potentiometer	НОТ	
28/AUTO Blink	Made de su estructou actouticamentou	FACE	
29/AUTO Blink	Mode door actuator potentiometer	DEF	
41/AUTO Blink	0 11 1 11 11 11 11	Open	
-41/AUTO Blink	Seat heater thermistor (Driver's side)	Short	
42/AUTO Blink	Coot boots the surrieter (Doos surreide)	Open	
-42/AUTO Blink	Seat heater thermistor (Passenger's side)	Short	
20 Blink	When all cond	litions are normal	

^{*1: &}quot;AUTO" display does not blink when past malfunction occurred. Past malfunction means that abnormal signals were continuously input for a certain time in the past.

5. OPERATING MODE TABLE

Display screen	FRESH/RECIRC door	Mode door	Air mix door*	Blower fan	A/C compressor (Magnet clutch)
31	FRESH	FACE	Maximum cool	LO	OFF
32	RECIRC	FACE	Maximum cool	LO	ON
33	RECIRC	FACE	Maximum cool	M1	ON
34	FRESH	B/L	50%	M1	ON
35	FRESH	HEAT	50%	M1	ON
36	FRESH	HEAT	Maximum hot	M3	ON
37	FRESH	D/H	Maximum hot	M3	ON
38	FRESH	DEF	Maximum hot	HI	ON

^{*}Same opening angle for both driver's and passenger's side

^{*2:} Present malfunction only is displayed for sunload sensor open circuit.